



## New high-tech version of Realheart's artificial heart

*Today Realheart presents the design that is intended to be used during clinical studies in humans. It is a self-regulating heart that is smaller than its predecessor and at the same time has higher pumping capacity.*

During a press conference at the Technical Museum, Realheart today presented a high-tech version of its artificial heart. After several months of product development, Realheart has come to version 12, which is intended to be used in the clinical trials on humans that are scheduled to start in 2022.

As a result of components being downsized, the new version is smaller than its predecessor, and also scalable which allows making it in other sizes for people with smaller bodies. Pump capacity has been increased by more than 20% through new motors with higher speeds. At the same time the motors have more power thanks to a smaller and more advanced control system. This allows the user to engage in more demanding physical activities. The new heart is self-regulating and automatically adjusts the pumping capacity to the user's behaviour thanks to built-in sensors and advanced software.

Tests and modifications of the new version are now taking place as part of the product preparation for the human studies.

"We are moving forward at high speed and our product development is becoming more and more advanced. I strongly feel that with version 12 we will revolutionize the heart pump technology. Holding the prototype of the new heart in my hand fills me with great respect for the know-how of our technicians and experts, and not least confidence for the future," says Azad Najjar, CEO and founder.

### **For more information please contact:**

Azad Najjar, CEO

Tel: +46(0)736-673 463

E-mail: [azad.najjar@realheart.se](mailto:azad.najjar@realheart.se)

*Scandinavian Real Heart AB develops a total artificial heart (TAH) for implantation in patients with life-threatening heart failure. Realheart TAH has a unique, patented design that resembles that of the natural human heart. The artificial heart consists of a four-chamber system (two atriums and two chambers) which provides the opportunity to generate a physiologically adapted blood flow that mimics the body's natural circulation. A unique concept in the medical technology world.*